

# PATENT ABSTRACTS OF JAPAN

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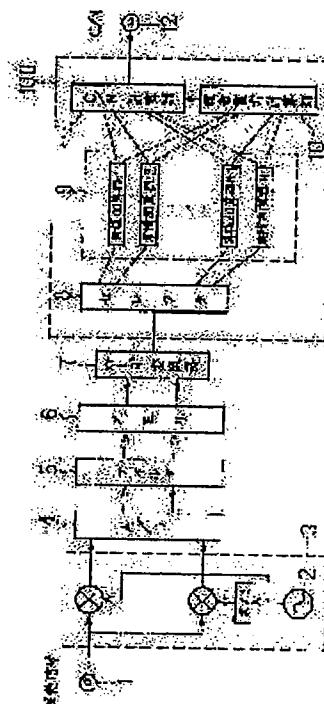
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## (54) CN RATIO MEASUREMENT MEANS

### (57)Abstract:

**PURPOSE:** To measure the C/N before demodulation from a reception signal even when there is no non-modulation part or even from a signal subjected to quasi-synchronization detection.

**CONSTITUTION:** An in-phase orthogonal component of a burst signal detected and phase-modulated by an orthogonal detector 3 is sampled and quantized by a A/D converter 4, a filter 5 is used to make waveform shaping and the signal is stored by one burst in a buffer memory 6. An XY-R2 converter 7 calculates square of the amplitude of the signals outputted from the buffer memory 6 and a selector 8 selects the value to which accumulator it is to be received. A noise power calculation section 10 uses plural accumulated sums outputted from an accumulation section 9 to obtain noise power of the reception signal and a C/N calculation section 11 estimates the C/N from the accumulation outputted from the accumulation section 9 and the noise power outputted from the noise power calculation section 10 and the estimated C/N by the C/N calculation section 11 is outputted from an output terminal 12.



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